Appl. No. 10/064,605
Amdt. Dated July 29, 2004
Reply to Office action of: June 1, 2004

Amendments to the Specification

Please replace paragraph 0015 and 0016 on page 5 and page 6 of the specification with the following amended paragraphs.

[0015]   In one embodiment of the present invention, Figures 1 and 3 show a plurality of concavities 260 (Fig. 3) are disposed on a surface portion of the top channel 130 (Fig. 1) and disposed on a surface portion of the bottom channel 140 (Figs. 1-2). As used herein, the term "concavity" refers to depressions, indentations, dimples, pits or the like. In another embodiment, the plurality of concavities 260 are disposed on a surface portion of the upper ribs 150 and the bottom ribs 160. The shape of the concavities [[140]] 260 is typically hemispherical or inverted and truncated conically shaped. In some embodiments, the shape of the concavities [[140]] 260 is typically any sector of a full hemisphere. It will be appreciated that in other embodiments, the concavities [[140]] 260 may be disposed on an entirety or a surface portion of the cathode 200, the anode 180 or both the cathode 200 and anode 180 depending on a desired application.

[0016]   The concavities 260 (see Figure [[1]] 3) are formed on the abovementioned surfaces in a predetermined pattern that serves to enhance the heat transfer from the fuel cell components, typically the anode 180, cathode 200 and electrolyte 190, to the fluid 210, such as the oxidant (see Figure 2). In one embodiment, the concavities 260 are disposed on an entirety of the abovementioned surfaces. In another embodiment, the concavities 260 are disposed on a portion of the abovementioned surfaces. It will be appreciated that the position and orientation of the upper ribs 150 and the bottom ribs 160 and the location of the concavities 260 on such ribs 150,160 (as shown in Fig. 1) can vary and the position, orientation and location of the upper and bottom ribs 150, 160 and concavities 260 disposed thereon (as shown in Figures 1-3 Fig. 3) are used by way of illustration and not limitation.